

Read the scenario. Answer the question by completing each of the four modes below.

Create a visual.

Solve by showing work.

Explain what you did **and** why you did it.

Describe how this problem applies to real life.

4 square grading rubric

Name \_\_\_\_\_

	<b>Total Points</b> _____/16	<b>4</b>	<b>3</b>	<b>2</b>	<b>1</b>
<b><u>Strategic Knowledge</u></b>	<b>Picture</b>	I have included a drawing that demonstrates exceptional understanding of the problem. My drawing is labeled correctly to show a deeper understanding of the problem.	I have included a drawing that demonstrates an understanding of the problem. My drawing is missing labels or parts may be labeled incorrectly.	I have included a drawing for my problem but it does not show an understanding of the problem. My labels are present but are incorrect.	I have included a drawing but it does not show an understanding of the problem. No labels are used to show a deeper understanding of the problem.
<b><u>Mathematical Knowledge</u></b>	<b>Mathematical Solution</b>	My mathematical solution is accurate and parts are labeled correctly. My solution shows all the steps I took to correctly identify my final answer.	My mathematical solution is accurate and parts are labeled correctly. Steps in my solution are missing but I am able to correctly identify my final answer.	My mathematical solution is inaccurate or labeled incorrectly. Errors are present in my solution.	My mathematical solution is unorganized and does not represent the problem correctly. Many errors are present in the solution.
<b><u>Knowledge of Explanation</u></b>	<b>Explanation</b>	My written explanation includes each step taken to reach the solution and why I took each of the steps to reach my final answer.	My written explanation includes the steps taken to reach the solution. My explanation includes why the steps were taken but may not accurately reflect all of my steps.	My written explanation includes the steps taken to reach the solution. My explanation does not include why the steps were taken.	My written explanation does not include all the steps and reasons for these steps in my solution. I have little written explanation to explain the steps I took in my solution.
	<b>Real Life Comparison</b>	I am able to make a real life comparison that accurately reflects the mathematical concept used in the problem. The relationship I have shown is strong, clear and can be easily understood.	I am able to make a real life comparison that accurately reflects the mathematical concept used in the problem. The relationship I have shown is not clearly understood.	I am able to make a real life comparison but it does not accurately reflect mathematical concept used in the problem. The relationship I have created is too vague.	I am not able to make a real life comparison of the mathematical concept. I have not established a relationship between the two.

**Teacher Comments:**